# SERVICE TECHNICAL REPORT

KENWOOD
KENWOOD CORPORATION



STR No.B140-95-002E

■ HOME □ GENERAL

REFERENCE.B140-95-002J

| MODEL : P-29 | DATE. July 26, 1995 |
|---|---|

SUBJECT :

## Substitution for service manual

P-29 (Turntable) is modified from P-28. Changing parts are shown below.
Please refer to P-28 service manual (B51-4831-00) if you want to know other information.

| Parts No. | | Destination |
|---|---|---|
| A53-1931-08 | Dust cover | |
| B60-2470-08 | Instruction manual (English) | Y, X, T |
| B60-2471-08 | Instruction manual (English, Spanish, Taiwan) | M |
| B60-2497-08 | Instruction manual (French, German, Dutch, Italian, Spanish) | E |
| H50-1734-08 | Item carton case | E, Y, X, T |
| H50-1735-08 | Item carton case | M |
| J02-1144-08 | Insulator ass'y | |

| | | | | |
|---|---|---|---|---|
| Service code | A(S) : | B : | C(P) : | D(C) : |
| Parts included | ☐ No | ☐ Yes | ☐ Mail | |
| Parts stock | ☐ Yes | ☐ No Delivery M D | ☐ Charge | ☐ Free of charge |
| Prod. change | Lot | S/No. | ☐REWORK | |
| Application | ☐ All repair units | ☐ Defectives only | ☐ Refurbish | |

| Index code | |
|---|---|
| Information 1 : | 2 : |
| Symptom 1 : | 2 : |
| MANAGER | T. Kumagai |
| WRITER | T. Kumagai |

Distribution

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AUTOMATIC RETURN TURNTABLE

# P-28

# SERVICE MANUAL

KENWOOD

4011

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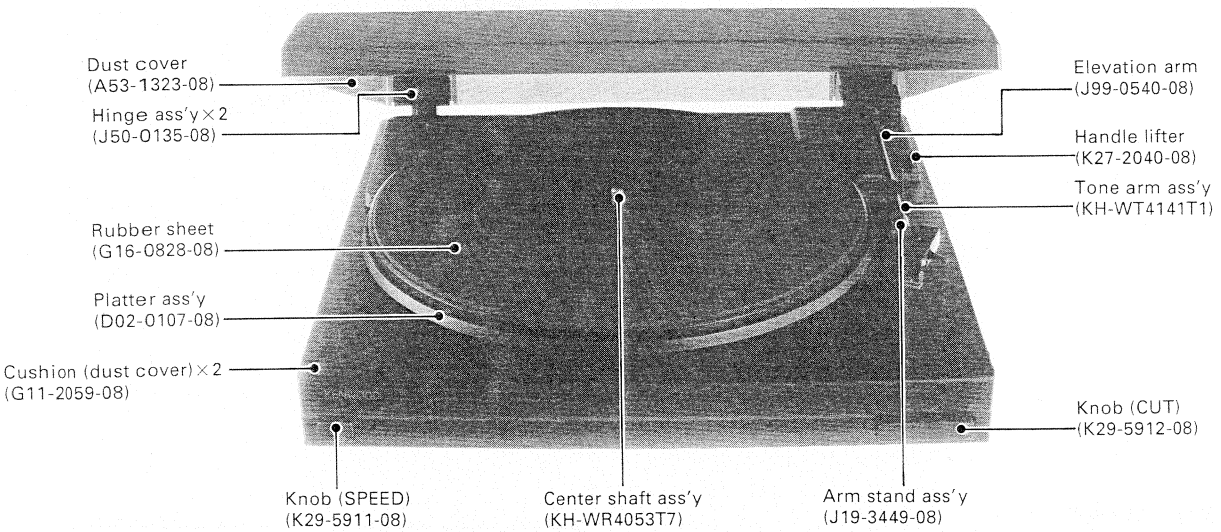
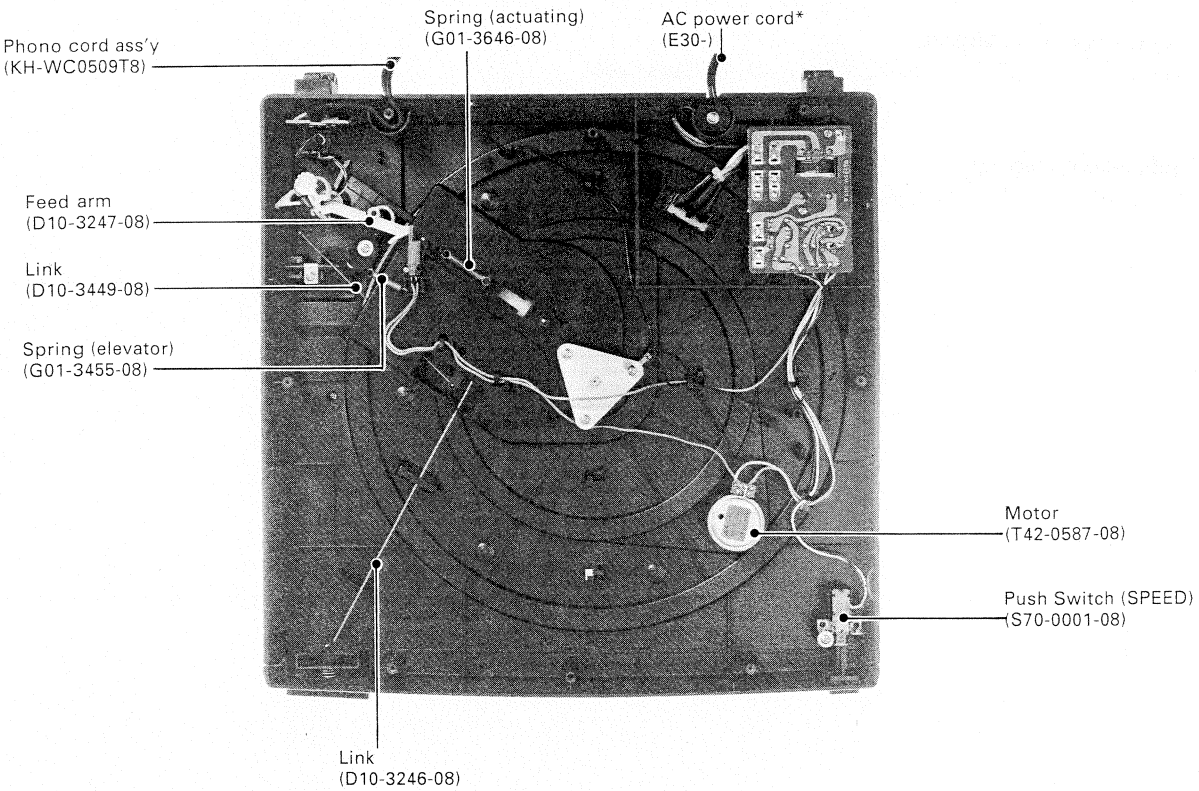
B51-4831-00(MC)2717




*** Refer to parts list on page 6.**

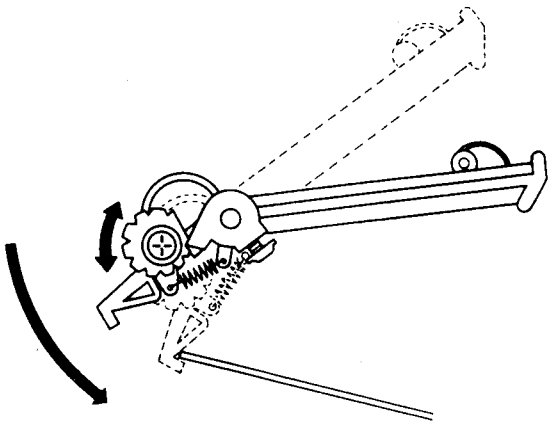
4011

# ADJUSTMENT / REGLAGES / ABGLEICH

**1. Auto-return position adjustment**
For this, adjust the cam as shown on the right.

**1. Ajustement de la position de retour automatique**
Pour ceci, ajuster la came comme indiqué sur la droite.

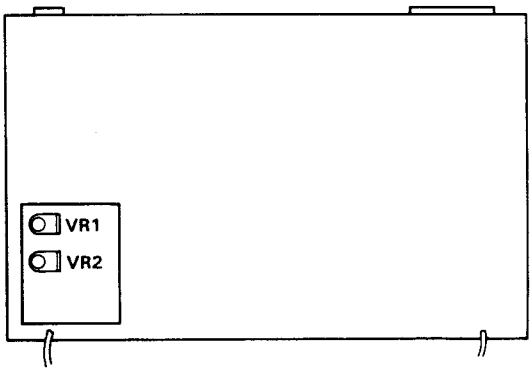
**1. Einstellung der automatischen Rückkehrposition**
Hierfür den Nocken wie rechts abgebildet einstellen.



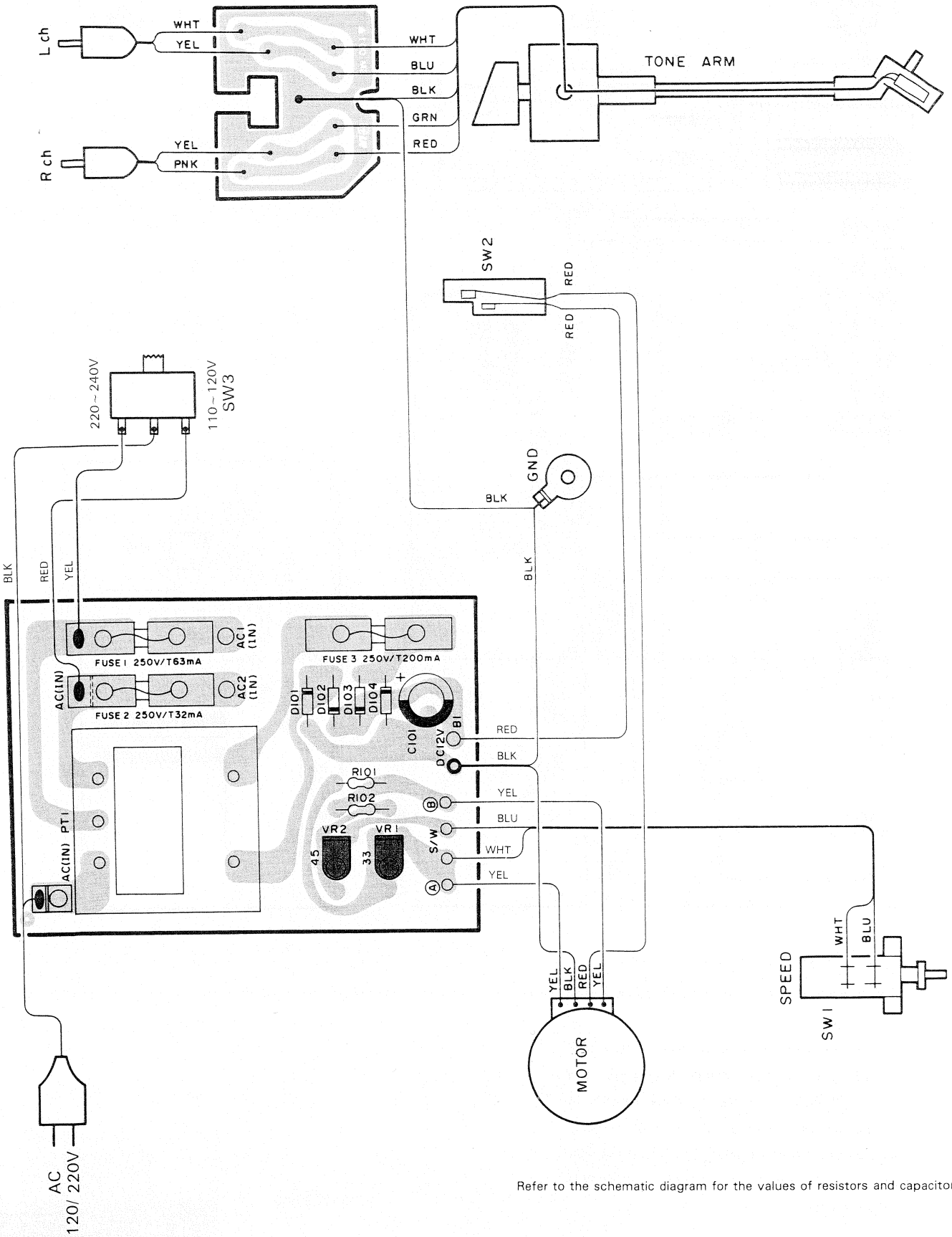
**2. Speed adjustment**
First, adjust the 33 RPM by VR1, then the 45 RPM by VR2.

**2. Ajustement de la vitesse**
D'abord ajuster les 33 tours avec RV1 puis les 45 tours avec RV2.

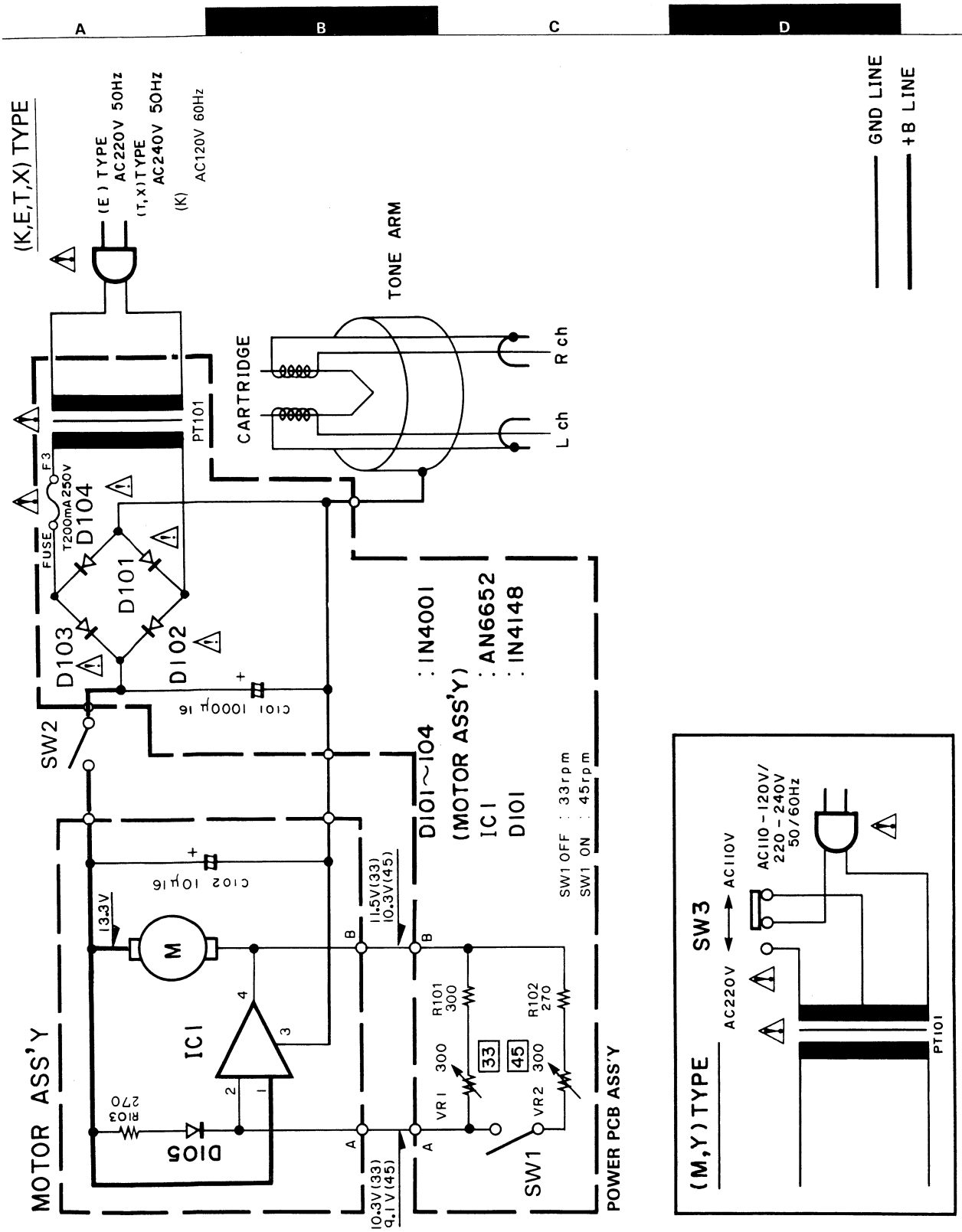
**2. Drehzahl-Einstellung**
Zuerst 33 Upm mit VR1 und dann 45 Upm mit VR2 einstellen.



# PC BOARD (Component side view)



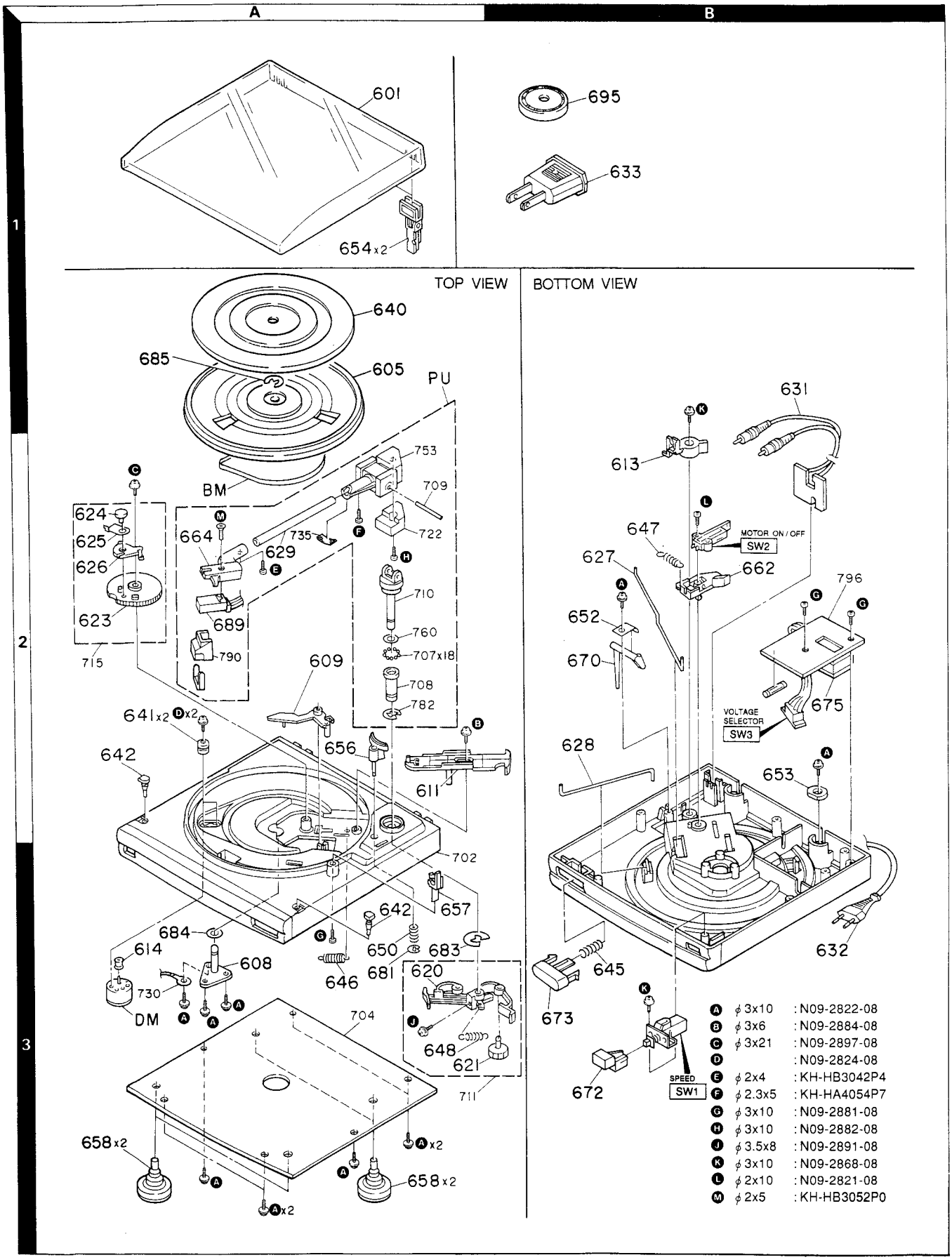

Refer to the schematic diagram for the values of resistors and capacitors.




DC voltages are as measured with a high impedance voltmeter at 33-1/3 r.p.m. mode. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.**

# EXPLODED VIEW




**Parts with the exploded numbers larger than 700 are not supplied.**

* New Parts
Parts without Parts No. are not supplied. .
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

❶

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| | | | **P-28** | | | |
| 601 | 1A | | A53-1323-08 | DUST COVER | | |
| - | | | B46-0092-33 | WARRANTY CARD | K | |
| - | | | B46-0094-03 | WARRANTY CARD | Y | |
| - | | | B46-0095-03 | WARRANTY CARD | Y | |
| - | | | B46-0096-33 | WARRANTY CARD | X | |
| - | | | B46-0310-03 | WARRANTY CARD | TE | |
| - | | * | B60-1395-08 | INSTRUCTION MANUAL(ENGLISH) | KXTY | |
| - | | * | B60-1396-08 | INSTRUCTION MANUAL(E,S,C) | M | |
| - | | * | B60-1397-08 | INSTRUCTION MANUAL(E,F,D,G,I) | E | |
| 605 | 1A | | D02-0107-08 | PLATTER ASSY | | |
| 608 | 3A | * | KH-WR4053T7 | CENTER SHAFT ASSY | | |
| 609 | 2A | | D10-3244-08 | LEVER(REJECT) | | |
| 611 | 2A | | D10-3448-08 | ACTUATING ARM | | |
| 613 | 2B | | D12-0140-08 | ELEVATOR | | |
| 614 | 3A | | D15-0315-08 | PULLEY(MOTOR) | | |
| 620 | 3A | | D10-3247-08 | FEED ARM | | |
| 621 | 3A | | D12-0141-08 | CAM ADJUST | | |
| 623 | 2A | | D13-0940-08 | GEAR RING | | |
| 624 | 2A | | D32-0194-08 | LOCK CLUTCH | | |
| 625 | 2A | | D19-0263-08 | PLATE CLUTCH | | |
| 626 | 2A | | D19-0264-08 | GUIDE CLUTCH | | |
| 627 | 2B | | D10-3449-08 | LINK | | |
| 628 | 2B | | D10-3246-08 | LINK | | |
| 629 | 2A | | D10-3248-08 | PIPE(TONE ARM) | | |
| BM | 2A | | D16-0317-08 | BELT RUBBER | | |
| 631 | 1B | | KH-WC0509T8 | PHONO CORD ASSY | | |
| ⚠ 632 | 3B | | E30-0812-05 | AC POWER CORD | Y | |
| ⚠ 632 | 3B | | E30-0974-05 | AC POWER CORD | K | |
| ⚠ 632 | 3B | | E30-2647-08 | AC POWER CORD | ME | |
| ⚠ 632 | 3B | | E30-2714-05 | AC POWER CORD | X | |
| ⚠ 632 | 3B | | E30-2718-05 | AC POWER CORD | T | |
| ⚠ 633 | 1B | | E03-0115-05 | AC ADAPTOR | M | |
| 640 | 1A | | G16-0828-08 | RUBBER SHEET | | |
| 641 | 2A | | G11-2058-08 | CUSHION(MOTOR) | | |
| 642 | 2A,3A | | G11-2059-08 | CUSHION(DUST COVER) | | |
| 645 | 3B | * | G01-3659-08 | SPRING(CUT) | | |
| 646 | 3A | | G01-3646-08 | SPRING(ACTUATING) | | |
| 647 | 2B | | G01-3455-08 | SPRING(ELEVATOR) | | |
| 648 | 3A | | G01-3454-08 | SPRING(ARM) | | |
| 650 | 3A | | G01-3452-08 | SPRING(ELEVATION) | | |
| - | | | H10-5262-08 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0232-04 | PROTECTION BAG(MANUAL) | | |
| - | | * | H25-0645-08 | PROTECTION BAG(PLATTER) | | |
| - | | | H25-0662-08 | PROTECTION BAG(SET) | | |
| - | | * | H50-0857-08 | ITEM CARTON CASE | KXTEY | |
| - | | * | H50-0858-08 | ITEM CARTON CASE | M | |
| 652 | 2B | | J21-5730-08 | HOLDER(LEVER) | | |
| 653 | 2B | | J19-3414-08 | STOPPER CORD | | |
| 654 | 1A | | J50-0135-08 | HINGE ASSY | | |
| 656 | 2A | | J99-0540-08 | ELEVATION ARM | | |

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

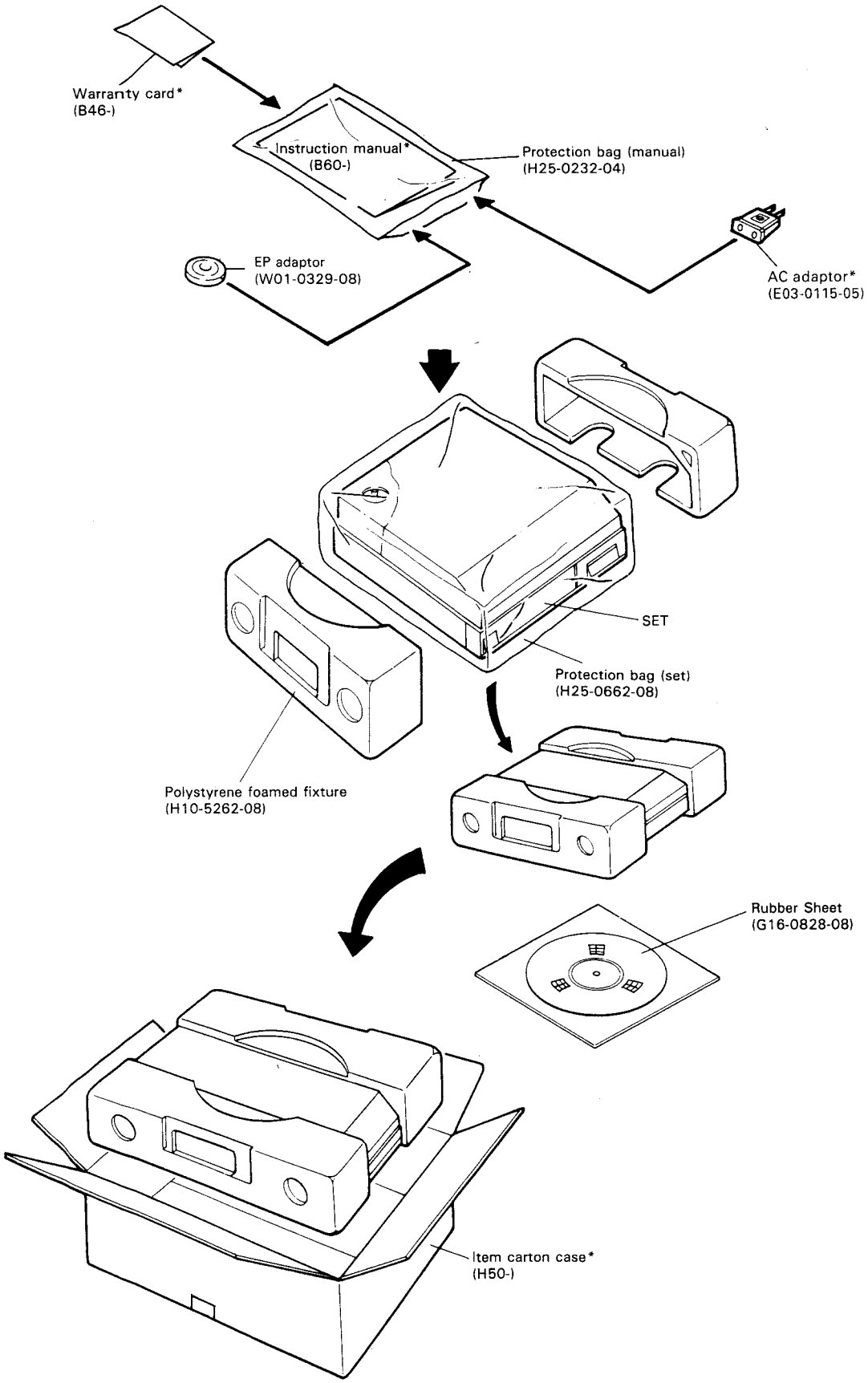
❷

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| 657 | 3A | | J19-3449-08 | ARM STAND ASSY | | |
| 658 | 3A | | J02-1071-08 | FOOT RUBBER | | |
| 662 | 2B | | J19-3415-08 | HOLDER SW | | |
| 664 | 2A | | J92-0101-08 | HEAD SHELL | | |
| PU | 1A | | KH-WT4141T1 | TONE ARM ASSY | | |
| 670 | 2B | | K27-2040-08 | HANDLE LIFTER | | |
| 672 | 3B | * | K29-5911-08 | KNOB(SPEED) | | |
| 673 | 3B | * | K29-5912-08 | KNOB(CUT) | | |
| ⚠ 675 | 2B | | L07-0320-08 | POWER TRANSFORMER | K | |
| ⚠ 675 | 2B | | L07-0324-08 | POWER TRANSFORMER | E | |
| ⚠ 675 | 2B | | L07-0886-08 | POWER TRANSFORMER | XT | |
| ⚠ 675 | 2B | | L07-0922-08 | POWER TRANSFORMER | MY | |
| 681 | 3A | | N19-1359-08 | WASHER C.S | | |
| 683 | 3A | * | N29-0269-08 | E RING | | |
| 684 | 3A | | N19-1258-08 | WASHER | | |
| 685 | 1A | * | N29-0275-08 | E-RING | | |
| A | | | N09-2822-08 | SCREW TAP WPH 3*10 | | |
| B | | | N09-2884-08 | SCREW TAP WPH 3*6 | | |
| C | | | N09-2897-08 | WASHER SCREW TAP WPH 3*21 | | |
| D | | | N09-2824-08 | SCREW MOTOR SETTING | | |
| E | | | KH-HB3042P4 | SCREW TAP PH 2*4 | | |
| F | | | KH-HA4054P7 | SCREW TAP PH 2.3*5 | | |
| G | | | N09-2881-08 | SCREW TAP PH 3*10 | | |
| H | | | N09-2882-08 | SCREW TAP BH 3*10 | | |
| J | | | N09-2891-08 | SCREW TAP WPH 3.5X8 | | |
| K | | | N09-2868-08 | WASHER SCREW TAP WPH 3*10 | | |
| L | | | N09-2821-08 | SCREW TAP PH 2*10 | | |
| M | | | KH-HB3052P0 | SCREW TAP PH 2*5 | | |
| 689 | 2A | | T21-0159-08 | CARTRIDGE(V-77) | | |
| DM | 3A | | T42-0587-08 | MOTOR | | |
| 695 | 1B | | W01-0329-08 | EP ADAPTOR | | |
| | | | **ELECTRIC UNIT** | | | |
| C101 | | | CE04KW1C102M | ELECTRO 1000UF 16WV | | |
| ⚠ F3 | | | F50-0008-08 | FUSE(250V T200mA) | E | |
| ⚠ - | | | J13-0078-08 | FUSE CLIP | E | |
| VR1 ,2 | | | R12-0119-08 | VR SEMI FIXED(300)<SPEED ADJ.> | | |
| SW1 | 3B | | S70-0001-08 | PUSH SWITCH(SPEED) | | |
| SW2 | 2B | | S74-0002-08 | LEAF SWITCH(MOTOR ON/OFF) | | |
| ⚠ SW3 | 2B | | S62-0004-08 | SLIDE SWITCH(VOLTAGE SELECTOR) | MY | |
| ⚠ D101-104 | | | 1N4001 | DIODE | | |

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

# PACKING




* Refer to parts list on page 6.

# SPECIFICATIONS

## Motor and turntable

**Drive System** ..... Belt-Drive System
**Motor** ..... DC Servo Motor
**Turntable Platter** ..... 29.6 cm Diameter
0.2 kg weight
**Speeds** ..... 2 Speeds, 33-1/3 and
45 rpm.
**Wow & Flutter** ..... Less than 0.05% (WRMS)
**S/N (Rumble)** ..... DIN: 68 dB (DIN B)

## Tonearm

**Type** ..... Integrated Straight Tonearm
**Effective Arm Length** ..... 205 mm
**Over-Hang** ..... 14 mm
**Tracking Error** ..... +4°14′~−1°31′

## Cartridge

**Type** ..... VM type (V-77)
**Stylus** ..... N-77 with 0.6 mil Diamond
**Frequency Response** ..... 20 Hz to 20,000 Hz
**Output Voltage** ..... 2.5 mV (1,000 Hz,
5.0 cm/sec.)
**Load Impedance** ..... 47 kΩ
**Compliance** ..... $4 \times 10^{-6}$ cm/dyne

## General

**Power Consumption** ..... 4 watts
**Dimensions** ..... W: 360 mm
H: 106 mm
D: 353 mm
**Weight (Net)** ..... 2.6 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

**Note:**
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.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